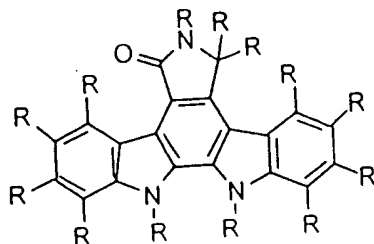


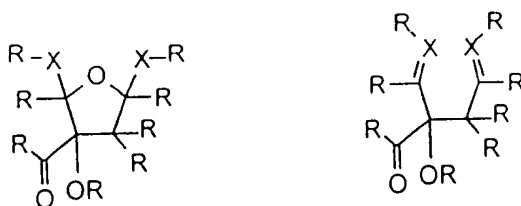
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LISTING OF CLAIMS

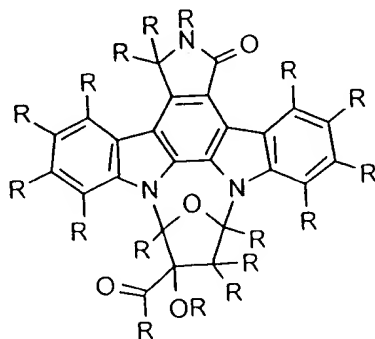
1. (Currently Amended) A process for the preparation of furanosylated indolocarbazoles by reacting an indolocarbazole having the ring structure



with an acetal having the ring structure



wherein X is S or O, under conditions that promote acetal exchange or formation to produce a glycosylated furanosylated product having the ring structure

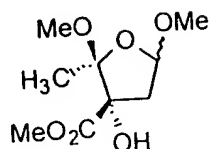


ε'
wherein R is selected from the group consisting of

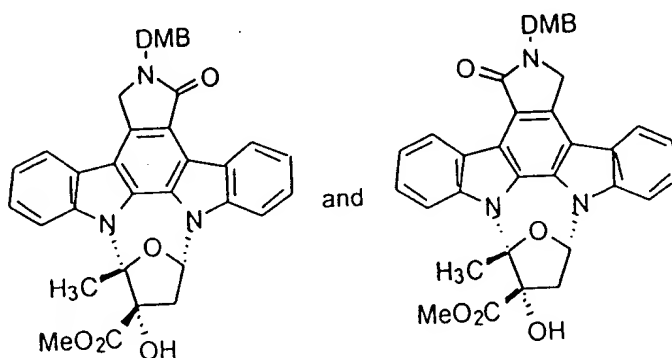
- a) a C₃₋₁₀ branched or unbranched alkyl, optionally partially or fully halogenated, hydroxy, C₁₋₃ alkyloxy, carboxy, amino, alkylamino;
- b) an aryl optionally substituted with one to five groups consisting of halo, hydroxy, C₁₋₃ alkyloxy;
- c) a hydrogen;
- d) a halogen; and
- e) mixtures of any of these.

2. (Cancelled).
3. (Currently Amended) A process according to claim 1 wherein said preparation is carried out in the presence of a Bronstead acid or a Lewis acid.
4. (Original) A process according to claim 3 wherein the acid is selected from the group consisting of camphor sulfonic acid, *para*-toluene sulfonic acid, and BF₃•Et₂O.
5. (Original) A process according to claim 4 wherein camphor sulfonic acid is used as a catalyst and dichloroethane is used as a solvent.
6. (Cancelled).
7. (Cancelled).

- 81 8. (Original) A process according to claim 1 wherein a furanose of the formula

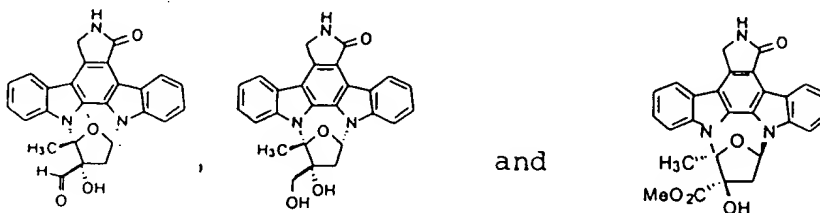


is reacted with DMB-protected K252c to give two products of the formulae

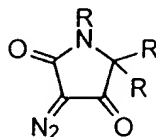


9. (Original) A product prepared according to the process of claim 1.
10. (Previously Amended) A product prepared according to the process of claim 3.
11. (Original) A process according to claim 1 wherein the furanosylated indolocarbazole prepared is K252a.

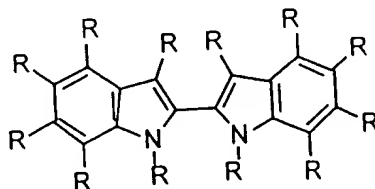
- 8' 12. (Original) A process according to claim 1 wherein the furanosylated indolocarbazoles prepared are selected from the group consisting of:



13. (Previously Amended) A process according to claim 1 wherein the indolocarbazole is prepared by reacting a diazo compound having the ring structure



with a biindole having the ring structure

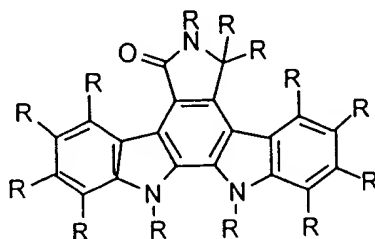


14. (Original) A process according to claim 13 wherein the reaction is carried out in the presence of a transition metal catalyst in a solvent capable of solvating the reactants.

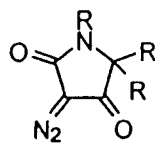
15. (Original) A process according to claim 13 wherein the coupling reaction is carried out in the presence of a $\text{Rh}_2(\text{OAc})_4$ catalyst.

16. (Original) A process according to claim 13 wherein the diazo compound is a diazolaactam and the biindole is a 2,2'-biindole.

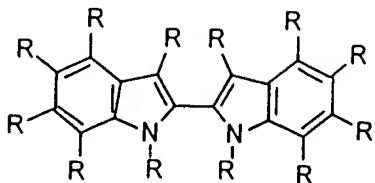
17. (Currently Amended) A process for the preparation of furanosylated indolocarbazoles by reacting an indolocarbazole having the ring structure



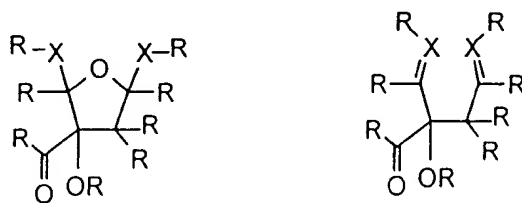
by reacting a diazo compound having the ring structure



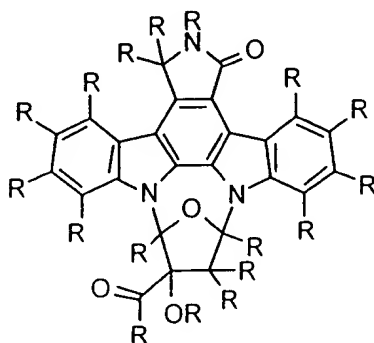
with a biindole having the ring structure



in the presence of a transition metal catalyst in a solvent capable of solvating the reactants,
and then reacting the indolocarbazole with an acetal having the ring structure



wherein X is S or O, in the presence of a Bronsted acid or a Lewis acid to produce a
glycosylated furanosylated product having the ring structure



wherein R is selected from the group consisting of

E' a) a C₃₋₁₀ branched or unbranched alkyl, including Me optionally partially or fully halogenated; a hydroxy; a C₁₋₃ alkyloxy, including CO₂Me; a carboxy; an amino; an alkylamino; a hydrogen; a halogen; Bn; DMB; PMB; and mixtures of any of these.

18. (Cancelled).

19. (Original) A process according to claim 17 wherein the furanosylated indolocarbazole prepared is K252a.

20. (Original) A product produced by the process of claim 17.

21. (Previously Added) A process according to claim 1 wherein the indolocarbazole is reacted with an acetal under conditions that promote acetal exchange.

22. (Previously Added) A process according to claim 3 wherein the preparation is carried out in the presence of a Lewis acid.

23. (Previously Added) A process according to claim 17 wherein the biindole is a 2,2' - biindole.

24. (Previously Added) A process according to claim 17 wherein a Lewis acid is employed.

25. (New) A process according to claim 1 wherein R is selected from the group consisting of Me, Bu, t-Bu, OH, MeO, CO₂Me, DMB, PMB, NHMe, Bn, NH₂, and mixtures thereof.